



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 31525-99

www.miamidade.gov/economy

GAF

1361 Alps Road
Wayne, NJ 07470

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF Ruberoid® Modified Bitumen Roof Systems for Gypsum Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 13-0409.04 and consists of pages 1 through 18.
The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 14-0501.06
Expiration Date: 11/06/15
Approval Date: 10/30/14
Page 1 of 18

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Modified Bitumen
Material: APP/SBS
Deck Type: Gypsum
Maximum Design Pressure: -190 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
GAFGlas® Ply 4	39.37" (1 meter) Wide	ASTM D2178	A smooth surfaced asphaltic ply sheet reinforced with fiberglass mat.
Tri-Ply® Ply 4	39.37" (1 meter) Wide	ASTM D2178	A smooth surfaced asphaltic ply sheet reinforced with fiberglass mat.
GAFGlas® FlexPly™ 6	39.37" (1 meter) Wide	ASTM D2178	A smooth surfaced asphaltic ply sheet reinforced with fiberglass mat.
GAFGlas® #75 Base Sheet	39.37" (1 meter) Wide	ASTM D4601	A smooth asphaltic base or base/ply sheet reinforced with fiberglass mat.
Tri-Ply® #75 Base Sheet	39.37" (1 meter) Wide	ASTM D4601	A smooth asphaltic base or base/ply sheet reinforced with fiberglass mat.
GAFGlas® #80 Ultima Base Sheet	39.37" (1 meter) Wide	ASTM D4601	A smooth asphaltic base or base/ply sheet reinforced with fiberglass mat.
Liberty™ SBS Self-Adhering Base/Ply Sheet	39.375" x 66'	ASTM D6163	Self-adhering, SBS modified base or ply sheet with glass reinforced mat.
WeatherWatch® XT Mat Surfaced Leak Barrier	36" x 50' rolls 36" x 66.7' rolls	ASTM D1970	Mat surfaced SBS modified, fiberglass reinforced, bituminous sheet material for use as a leak barrier underlayment or vapor retarder.
GAFGlas® StrataVent® Eliminator™ Perforated Venting Base Sheet	39.37" (1 meter) Wide	ASTM D4897	A smooth surfaced asphaltic perforated venting base sheet reinforced with fiberglass mat.
GAFGlas® StrataVent® Eliminator™ Nailable Venting Base Sheet	39.37" (1 meter) Wide	ASTM D4897	A smooth surfaced asphaltic nailable venting base sheet reinforced with fiberglass mat. Bottom side surfaced with granules.
Ruberoid® SBS Heat-Weld 25	39.37" (1 meter) Wide	ASTM D6163	A smooth surfaced torch applied SBS base or ply sheet reinforced with a fiberglass mat.
Ruberoid® SBS Heat-Weld Smooth	39.37" (1 meter) Wide	ASTM D6164	A smooth surfaced torch applied SBS base or ply sheet reinforced with a polyester mat.
Ruberoid® SBS Heat-Weld Granule	39.37" (1 meter) Wide	ASTM D6164	A granule surfaced torch applied SBS cap sheet reinforced with a polyester mat.
Ruberoid® SBS Heat-Weld 170 FR	39.37" (1 meter) Wide	ASTM D6164	A fire retardant granule surfaced heat-welded SBS cap sheet reinforced with a polyester mat.



Product	Dimensions	Test Specification	Product Description
Ruberoid® SBS Heat-Weld 170 FR	39.37" (1 meter) Wide	ASTM D6164	A fire retardant granule surfaced heat-welded SBS cap sheet reinforced with a polyester mat.
Ruberoid® SBS Heat-Weld 170 FR	39.37" (1 meter) Wide	ASTM D6164	A fire retardant granule surfaced heat-welded SBS cap sheet reinforced with a polyester mat.
Ruberoid® SBS Heat-Weld Plus	39.37" (1 meter) Wide	ASTM D6164	A granule surfaced torch applied SBS cap sheet reinforced with a polyester mat.
Ruberoid® SBS Heat-Weld Plus FR	39.37" (1 meter) Wide	ASTM D6164	A fire retardant granule surfaced torch applied SBS cap sheet reinforced with a polyester mat.
Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR	39.37" (1 meter) Wide	ASTM D6164	A fire retardant granule surfaced heat-welded SBS cap sheet reinforced with a polyester mat. Cap sheet is factory coated with Topcoat® EnergyCote™ Elastomeric Coating.
Ruberoid® Torch Smooth	39.37" (1 meter) Wide	ASTM D6222	A smooth surfaced torch applied APP base or ply sheet reinforced with a polyester mat.
Tri-Ply® TP-4	39.37" (1 meter) Wide	ASTM D6222	A smooth surfaced torch applied APP cap, base or ply sheet reinforced with a polyester mat.
Ruberoid® Torch Granule	39.37" (1 meter) Wide	ASTM D6222	A granule surfaced torch applied APP cap sheet reinforced with a polyester mat.
Ruberoid® Torch 180	39.37" (1 meter) Wide	ASTM D6222	A granule surfaced torch applied APP cap sheet reinforced with a polyester mat.
Tri-Ply® TP-4G	39.37" (1 meter) Wide	ASTM D6222	A granule surfaced torch applied APP cap sheet reinforced with a polyester mat.
Ruberoid® Torch FR	39.37" (1 meter) Wide	ASTM D6222	A fire retardant granule surfaced torch applied APP cap sheet reinforced with a polyester mat.
Ruberoid® EnergyCap™ Torch Plus FR	39.37" (1 meter) Wide	ASTM D6222	A fire retardant granule surfaced torch applied APP cap sheet reinforced with a polyester mat. Cap sheet is factory coated with Topcoat® EnergyCote™ Elastomeric Coating.
Ruberoid® EnergyCap™ Torch Granule FR	39.37" (1 meter) Wide	ASTM D6222	A fire retardant granule surfaced torch applied APP cap sheet reinforced with a polyester mat. Cap sheet is factory coated with Topcoat® EnergyCote™ Elastomeric Coating.
Ruberoid® 20	39.37" (1 meter) Wide	ASTM D6163	A SBS polymer-modified asphalt base or ply sheet reinforced with a fiberglass mat.
Ruberoid® 30	39.37" (1 meter) Wide	ASTM D6163	A granule surfaced mop applied SBS cap sheet reinforced with a fiberglass mat.

Product	Dimensions	Test Specification	Product Description
Ruberoid® 30 FR	39.37" (1 meter) Wide	ASTM D6163	A fire retardant granule surfaced mop applied SBS cap sheet reinforced with fiberglass mat.
Ruberoid® Mop Granule	39.37" (1 meter) Wide	ASTM D6164	A granule surfaced mop applied SBS cap sheet reinforced with a polyester mat.
Tri-Ply® SBS Modified Bitumen Membrane	39.37" (1 meter) Wide	ASTM D6164	A granule surfaced mop applied SBS cap sheet reinforced with a polyester mat.
Intec Flex PRF	39.37" (1 meter) Wide	ASTM D6164	A granule surfaced mop applied SBS cap sheet reinforced with a polyester mat.
Ruberoid® Mop Smooth	39.37" (1 meter) Wide	ASTM D6164	A smooth surfaced mop applied SBS base sheet reinforced with a polyester mat.
Ruberoid® Mop Smooth 1.5	39.37" (1 meter) Wide	ASTM D6164	A smooth surfaced mop applied SBS base sheet reinforced with a polyester mat.
Ruberoid® Mop Plus Smooth	39.37" (1 meter) Wide	ASTM D6164	A smooth surfaced mop applied SBS base or ply sheet reinforced with a polyester mat.
Ruberoid® Mop Plus	39.37" (1 meter) Wide	ASTM D6164	A granule surfaced mop applied SBS cap sheet reinforced with a polyester mat.
Ruberoid® Mop FR	39.37" (1 meter) Wide	ASTM D6164	A fire retardant granule surfaced mop applied SBS cap sheet reinforced with a polyester mat.
Ruberoid® EnergyCap™ Mop FR	39.37" (1 meter) Wide	ASTM D6164	A fire retardant granule surfaced mop applied SBS cap sheet reinforced with a polyester mat. Cap sheet is factory coated with Topcoat® EnergyCote™ Elastomeric Coating.
Ruberoid® Mop 170 FR	39.37" (1 meter) Wide	ASTM D6164	A fire retardant granule surfaced mop applied SBS cap sheet reinforced with a polyester mat.
Ruberoid® EnergyCap™ 30 FR SBS Membrane	39.37" (1 meter) Wide	ASTM D6163	A fire retardant granule surfaced mop applied SBS cap sheet reinforced with a fiberglass mat. Cap sheet is factory coated with Topcoat® EnergyCote™ Elastomeric Coating.
GAFLAS® Mineral Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D3909	A granule surfaced asphaltic cap sheet reinforced with fiberglass mat.
Tri-Ply® Mineral Surfaced Cap Sheet	39.37" (1 meter) wide	ASTM D3909	A granule surfaced asphaltic cap sheet reinforced with a fiberglass mat.
GAFLAS® EnergyCap™ BUR Mineral Surface Cap Sheet	39.37" (1 meter) Wide	ASTM D3909	A granule surfaced asphaltic cap sheet reinforced with fiberglass mat. Cap sheet is factory coated with Topcoat® EnergyCote™ Elastomeric Coating.
Matrix™ 102 SBS Membrane Adhesive	3, 5 or 55 gallons	ASTM D3019	Fiber reinforced rubberized cold-applied adhesive for modified bitumen roof systems.

Product	Dimensions	Test Specification	Product Description
Matrix™ 307 Premium Asphalt Primer	3, 5 or 55 gallons	ASTM D41	Asphalt concrete primer used to promote adhesion of all types of asphalt-based roofing materials.
Topcoat® Membrane	1, 5 or 55 gallons	ASTM D6083	Acrylic, water based elastomeric membrane system designed to protect various types of roof surfaces.
Topcoat® Surface Seal SB	5 gallons	ASTM D6083	Solvent based sprayable thermoplastic rubber sealant designed to protect and restore aged roof surfaces and to increase roof reflectivity.
Topcoat® MB Plus	5 or 55 gallons	Proprietary	Water based, low VOC primer used to block asphalt bleed-through.
Topcoat® Flex Seal	1 gallon, 5 gallons or 1 qt. tube	TAS 139	Solvent based flashing compound for gutters and other detailing.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
EnergyGuard™ Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ Ultra Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RA Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RA Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RA Composite Polyiso Insulation	Polyisocyanurate foam insulation with high density fiberboard or Permalite perlite insulation.	GAF.
EnergyGuard™ RH Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RH Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RN Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RN Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ Perlite Roof Insulation	Perlite insulation board.	GAF
EnergyGuard™ Perlite Recover Board	Perlite recover board	GAF
Securock® Gypsum-Fiber Roof Board	Gypsum board	United States Gypsum Corp.
Structodek® High Density Fiber Board Roof Insulation	High density fiberboard	Blue Ridge Fiberboard, Inc.
DensDeck® Roof Board	Gypsum roof board	Georgia-Pacific Gypsum LLC
DensDeck® Prime® Roof Board	Gypsum roof board	Georgia-Pacific Gypsum LLC



APPROVED FASTENERS:**TABLE 3**

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Drill-Tec™ Base Sheet Fastener (1.2 in.)	G-90 galvanized fastener with plate for base sheet attachment to gypsum decks and on lightweight insulating concrete decks less than 2" thick. Coated with CR-10 fluorocarbon coating.	1.125" head x 1.2" length 2.75" Galvalume steel stress plate.	GAF
2.	Drill-Tec™ Base Sheet Fastener E (1.2 in)	G-90 galvanized fastener with plate for base sheet attachment to gypsum decks and on lightweight insulating concrete decks less than 2" thick. Coated with CR-10 fluorocarbon coating.	1.125" head x 1.2" length 2.75" Galvalume steel stress plate	GAF
3.	Drill-Tec™ Locking Impact Nail	Preassembled fastener/plate unit for base ply and insulation attachment to cementitious wood fiber, poured gypsum and lightweight insulating concrete decks.	Various	GAF

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
FM Approvals	3032695	FM 4470	10/30/08
	3032811	FM 4470	12/11/08
	3041535	FM 4470	06/08/11
	3044688	FM 4470	03/01/12
	3044862	FM 4470	05/11/12
	3048066	FM 4470	12/13/13
	3031294	FM 4470	06/21/11
	0D0A8.AM	FM 4470	07/09/97
	2B8A4.AM	FM4470	07/02/97
	0T4A1.AM	FM 4470	12/14/05
Exterior Research & Design, LLC	01881.09.03-2	TAS 114	09/09/03
	4481.10.97-1	TAS 114	12/02/06
	4483.04.97-1	TAS 114	12/02/06
Trinity ERD	C85000SC.11.07	ASTM D6862	11/30/07
	ERD G34140.04.11-2	ASTM D6163	04/25/11
	ERD G40630.01.14-2B	ASTM D6164	03/31/10
	G30250.02.10-2	ASTM D6222	02/11/10
	G30250.02.10-3-R1	ASTM D3909	11/26/14
	G31360.03.10	ASTM D6164	03/31/10



<u>Test Agency</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Trinity ERD	G33470.01.11	ASTM D6164	01/13/11
	G34140.04.11-2	ASTM D6163	04/25/11
	G34140.04.11-4	ASTM D4601	04/25/11
	G34140.04.11-5	ASTM D4897	04/25/11
	G34140.04.11-5-R1	ASTM D4897	10/18/13
	G40620.07.12-2	ASTM D6222	07/17/12
	G40630.01.14-1	ASTMD 6163	01/06/14
	G40630.01.14-2A	ASTM D6164	01/07/14
	G40630.01.14-2A-1	ASTM D6164	01/07/14
	G40630.01.14-2B	ASTM D6164	01/07/14
	G40630.01.14-2C	ASTM D6164	01/07/14
	G40630.03.14	ASTM D6164	03/06/14
	G43180.01.14-1	ASTM D6163	01/10/14
	G43190.03.14-1	ASTM D6222	03/06/14
	G43190.03.14-2	ASTM D6222	03/06/14
	G43190.05.14-R1	ASTM D6222	05/20/14
	G43190.11.13-1	ASTM D6222	11/15/13
	G43610.01.14	ASTM D3909	01/22/14
	G46160.09.14-2A	ASTM D6164	09/09/14
	G46160.09.14-3A	ASTM D6164	09/09/14
	G46160.09.14-3B	ASTM D6164	09/09/14
	G46160.09.14-3C	ASTM D6164	09/09/14
	G6850.08.08	ASTM D6164	08/01/08
	G6850.08.08-R1	ASTM D6164	04/14/11
	G6850.10.08	ASTM D6222	10/06/08
	G6850.11.08	ASTM D6222	02/17/09
	SC6870.08.14	ASTM D3909	08/19/14
IRT-Arcon, Inc.	02-011	TAS 114	02/26/02
	02-015	TAS 114	03/26/02
Underwriters Laboratories, Inc.	UL 790	R1306	07/22/13
PRI Construction Materials Technologies LLC.	GAF-082-02-01	ASTM D6083	05/07/06
	GAF-084-02-01	ASTM D6083	05/07/06
	GAF-122-02-01	TAS 139	05/07/06
	GAF-245-02-01	ASTM D6083	06/10/10
	GAF-314-02-01	ASTM D2178	08/23/11
	GAF-314-02-01	ASTM D2178	08/23/11
	GAF-315-02-01	ASTM D2178	08/23/11
	GAF-343.02-01	ASTM D1970	04/23/12
	GAF-369-02-01	ASTM C1289	10/22/12
	GAF-417-02-01	ASTM C1289	05/28/13
	GAF-464-02-01	ASTM C1289	02/06/14
	GAF-499-02-01	ASTM D6083	03/12/14
	GAF-500-02-01	ASTM D6083	03/12/14
Momentum Technologies, Inc.	AX04C9A	ASTM D6162	06/05/09
Atlantic & Caribbean Roof Consulting, LLC	ACRC 11-043	TAS 114-D	08/19/11
	ACRC 11-046	TAS 114-D	08/19/11
	ACRC 12-035	TAS 114-D	08/15/12



APPROVED ASSEMBLIES:

Membrane Type: APP/SBS Heat-Weld

Deck Type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type A(1): Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

Anchor sheet: One ply of GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet, Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® 20, Ruberoid® Mop Smooth or Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth mechanically fastened as described below:

Fastening Options: Drill-Tec™ Base Sheet Fasteners (1.2) or Drill-Tec™ Base Sheet Fasteners E (1.2) at a 4" side lap 7" o.c. and in three rows staggered in the center of the sheet 7" o.c.
(Maximum Design Pressure –52.5 psf., See General Limitation #7)

Drill-Tec™ Locking Impact Nails at a 4" side lap 9" o.c. and in two rows staggered in the center of the sheet 12" o.c.

(Maximum Design Pressure –75 psf., See General Limitation #7)

All General and System Limitations shall apply.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ RA Polyiso Insulation Minimum 1.2" thick	N/A	N/A
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1.3" thick	N/A	N/A
EnergyGuard Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1.4" thick	N/A	N/A
EnergyGuard™ RA Polyiso Insulation Minimum 1.5" thick	N/A	N/A
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1.75" thick	N/A	N/A
Structodek® High Density Fiber Board, EnergyGuard™ Perlite Recover Board, EnergyGuard™ Perlite Roof Insulation Minimum ½" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down. GAF requires either a ply of GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet laid dry or a layer of EnergyGuard™ Perlite Roof Insulation or wood fiber overlay board on all Polyisocyanurate applications.

- Base Sheet: One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid® SBS Heat-Weld 25 or Ruberoid® SBS Heat-Weld Smooth adhered to the insulation in a full mopping of an approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with manufacturer's instructions. (See General Limitation #4)
OR
GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet loose laid dry followed by a mopped ply sheet listed below.
- Ply Sheet:
(Optional) **(Required over GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet)** One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Membrane: One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Ruberoid® Torch 180, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Plus FR or Ruberoid® EnergyCap™ Torch Granule FR, Ruberoid® EnergyCap Torch Plus FR, Ruberoid® Torch Plus Granule or Ruberoid® Torch FR torch applied in accordance with manufacturer's instructions.
Or
One or more plies of Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® SBS Heat-Weld Granule, Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR applied Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR, Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR in accordance with manufacturer's instructions.
Or
(Only for use over Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5 or Ruberoid® Mop Plus Smooth Ply Sheet) GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. sq.
- Surfacing: **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.**
1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq.
 2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
 3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
- Maximum Design Pressure: See Anchor Sheet Fastening.

Membrane Type: SBS/SBS Cold Applied

Deck Type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type A(2): Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

Anchor sheet: One ply of GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® Ultima™ #80 Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid® SBS Heat-Weld 25 or Ruberoid® SBS Heat-Weld Smooth fastened as described below:

Fastening Options: Drill-Tec Base Sheet Fasteners (1.2) or Drill-Tec™ Base Sheet Fasteners E (1.2) at a 4" side lap 7" o.c. and in three rows staggered in the center of the sheet 7" o.c.;
(Maximum Design Pressure –52.5 psf., See General Limitation #7)
 Drill-Tec™ Locking Impact Nails at a 4" side lap 9" o.c. and in two rows staggered in the center of the sheet 12" o.c.;
(Maximum Design Pressure –75 psf., See General Limitation #7)

All General and System Limitations shall apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ RA Polyiso Insulation Minimum 1.2" thick	N/A	N/A
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1.3" thick	N/A	N/A
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1.4" thick	N/A	N/A
EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RA Composite Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1.5" thick	N/A	N/A
EnergyGuard™ RA Polyiso Insulation Minimum 1.75" thick	N/A	N/A
Structodek® High Density Fiber Board, EnergyGuard™ Perlite Recover Board, EnergyGuard™ Perlite Roof Insulation Minimum ½" thick	N/A	N/A
Base or Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck® Roof Board, DensDeck Prime® Roof Board, Securock™ Gypsum-Fiber Roof Board Minimum ¼" thick	N/A	N/A
Structodek® High Density Fiber Board, EnergyGuard™ Perlite Recover Board, EnergyGuard™ Perlite Roof Board Minimum ½" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down. GAF requires either a ply of GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet laid dry or a layer of EnergyGuard™ Perlite Roof Board or wood fiber overlay board on all Polyisocyanurate applications.

Base Sheet: One ply of GAFGLAS® FlexPly™ 6, GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid® SBS Heat-Weld 25 or Ruberoid® SBS Heat-Weld Smooth adhered to the insulation in a full mopping of an approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with manufacturer's instructions. (See General Limitation #4)

OR

GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet loose laid dry followed by a mopped ply sheet listed below.

Ply Sheet:
(Optional) **(Required over GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet)** One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One or more plies of Ruberoid® 20, Ruberoid® 30, Ruberoid® 30 FR, Ruberoid® Mop Granule, Tri-Ply® SBS Modified Bitumen Membrane, Intec Flex PRF, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid® Mop Plus, Ruberoid® Mop FR, Ruberoid® EnergyCap™ Mop FR, Ruberoid® Mop 170 FR or Ruberoid® EnergyCap™ 30 FR SBS Membrane adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with manufacturer's instructions

Or

One ply Ruberoid® 30, Ruberoid® 30 FR, Ruberoid® Mop Granule, Tri-Ply® SBS Modified Bitumen Membrane, Intec Flex PRF, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid® Mop Plus, Ruberoid® Mop FR, Ruberoid® EnergyCap™ Mop FR, Ruberoid® Mop 170 FR, or Ruberoid® EnergyCap™ 30 FR SBS Membrane adhered in Matrix™ 102 SBS Membrane Adhesive at an application rate of 1-2 gal./sq. in accordance with manufacturer's instructions.

Or

(Only for use over Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5 or Ruberoid® Mop Plus Smooth Ply Sheet) GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. sq.

Surfacing: **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.

Maximum Design

Pressure: See Anchor Sheet Fastening.

Membrane Type: SBS Heat -Weld
Deck Type 6I: Poured Gypsum, Insulated
Deck Description: Poured Gypsum Concrete
System Type A(3): Base sheet adhered; all layers of insulation adhered
All General and System Limitations shall apply.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1" thick	N/A	N/A

Note: Insulation is adhered to the deck with Olybond 500® or Olybond 500® Green applied in 1" wide ribbons spaced 12" apart. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet or WeatherWatch® XT self-adhered in accordance with manufacturer's instructions.

Membrane: One ply Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR, Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld FR is torch adhered in accordance with manufacturer's instructions.

Surfacing: **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.

Maximum Design

Pressure: -147.5 psf. (See General Limitation #9)

Membrane Type: SBS Heat-Weld
Deck Type 6I: Poured Gypsum, Insulated
Deck Description: Poured Gypsum Concrete
System Type A(4): Base sheet adhered; all layers of insulation adhered

All General and System Limitations shall apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1" thick	N/A	N/A

Note: Insulation is adhered to the deck with Olybond 500® or Olybond 500® Green applied in 1" wide ribbons spaced 12" apart. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Securock® Gypsum Fiber Roof Board Minimum 0.25" thick	N/A	N/A

Note: Insulation is adhered to the deck with Olybond 500® or Olybond 500® Green applied in 1" wide ribbons spaced 12" apart. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet or Weather Watch® XT self-adhered in accordance with manufacturer's instructions.

Membrane: One ply of Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR torch adhered in accordance with manufacturer's instructions.

Surfacing: **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.

Maximum Design

Pressure: -105 psf. (See General Limitation #9)



Membrane Type: SBS Heat-Weld
Deck Type 6I: Poured Gypsum, Insulated
Deck Description: Poured Gypsum Concrete
System Type A(5): Base sheet adhered; all layers of insulation adhered

All General and System Limitations shall apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1" thick	N/A	N/A

Note: Insulation is adhered to the deck with Olybond 500® or Olybond 500® Green applied in 1" wide ribbons spaced 12" apart. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck® Prime® Roof Board Minimum 0.25" thick	N/A	N/A

Note: Insulation is adhered to the deck with Olybond 500® or Olybond 500® Green applied in 1" wide ribbons spaced 12" apart. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Ruberoid® SBS Heat-Weld 25 is heat welded in accordance with manufacturer's instructions.

Membrane: One ply Ruberoid® SBS Heat-Weld Granule, Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR torch adhered in accordance with manufacturer's instructions.

Surfacing: **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.

Maximum Design Pressure: -190 psf. (See General Limitation #9)



Membrane Type: APP/SBS Heat-Weld
Deck Type 6: Poured Gypsum, Non-insulated
Deck Description: Poured gypsum concrete.
System Type E(1): Base sheet mechanically fastened.

All General and System Limitations shall apply.

Base sheet: One ply of GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet, Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5 or Ruberoid® Mop Plus Smooth mechanically fastened as described below.

Fastening Options: Drill-Tec™ Base Sheet Fasteners (1.2) or Drill-Tec™ Base Sheet Fasteners E (1.2) at a 4" side lap 7" o.c. and in three rows staggered in the center of the sheet 7" o.c. **(Maximum Design Pressure –52.5 psf., See General Limitation #7)**
Drill-Tec™ Locking Impact Nails at a 4" side lap 9" o.c. and in two rows staggered in the center of the sheet 12" o.c. **(Maximum Design Pressure –75 psf., See General Limitation #7)**

Ply Sheet: One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5 or Ruberoid® Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with manufacturer's instructions.

Membrane: One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Ruberoid® Torch 180, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Plus FR or Ruberoid® EnergyCap™ Torch Granule FR torch applied in accordance with manufacturer's instructions.
Or
One or more plies of Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® SBS Heat-Weld Granule, Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR applied in accordance with manufacturer's instructions.

Surfacing: **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.

Maximum Design Pressure: See Base Sheet Fastening above.

Membrane Type: SBS/SBS Cold Applied
Deck Type 6: Poured Gypsum, Non-insulated
Deck Description: Poured gypsum concrete.
System Type E(2): Base sheet mechanically fastened.

All General and System Limitations shall apply.

Base sheet: One ply of GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet, GAFGLAS® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth or Ruberoid® 20, Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth mechanically fastened as described below:

Fastening Options: Drill-Tec™ Base Sheet Fasteners (1.2) or Drill-Tec™ Base Sheet Fasteners E (1.2) at a 4" side lap 7" o.c. and in three rows staggered in the center of the sheet 7" o.c. **(Maximum Design Pressure –52.5 psf., See General Limitation #7)**
Drill-Tec™ Locking Impact Nails at a 4" side lap 9" o.c. and in two rows staggered in the center of the sheet 12" o.c. **(Maximum Design Pressure –75 psf., See General Limitation #7)**

Ply Sheet: One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, (Optional) GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5 or Ruberoid® Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with manufacturer's instructions.

Membrane: One or more plies of Ruberoid® 20, Ruberoid® 30, Ruberoid® 30 FR, Ruberoid® Mop Granule, Tri-Ply® SBS Modified Bitumen Membrane, Intec Flex PRF, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid® Mop Plus, Ruberoid® Mop FR, Ruberoid® EnergyCap™ Mop FR, Ruberoid® Mop 170 FR or Ruberoid® EnergyCap™ 30 FR SBS Membrane adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in Matrix™ 102 SBS Membrane Adhesive at an application rate of 1-2 gal./sq. in accordance with manufacturer's instructions.

Surfacing: **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.

Maximum Design Pressure: See Base Sheet Fastening above.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE

